



1600

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/859,701

DATE: 04/08/2003  
TIME: 12:16:44

Input Set : A:\94661sequencelisting.ST25.txt  
Output Set: N:\CRF4\04082003\I859701.raw

3 <110> APPLICANT: Warner, Benjamin P  
 5 <120> TITLE OF INVENTION: Method for Detecting Binding Events Using Micro-X-Ray  
 6 Fluorescence Spectrometry  
 8 <130> FILE REFERENCE: S-94,661  
 10 <140> CURRENT APPLICATION NUMBER: 09/859,701  
 11 <141> CURRENT FILING DATE: 2001-05-16  
 13 <160> NUMBER OF SEQ ID NOS: 5  
 15 <170> SOFTWARE: PatentIn version 3.2  
 17 <210> SEQ ID NO: 1  
 18 <211> LENGTH: 11  
 19 <212> TYPE: PRT  
 20 <213> ORGANISM: artificial sequence needs to be explained in <2207-<223>  
 22 <220> FEATURE: section.  
 23 <223> OTHER INFORMATION: Xaa can be His, Arg, Ser, Trp, or Tyr  
 26 <220> FEATURE: see item 11  
 27 <221> NAME/KEY: MISC\_FEATURE  
 28 <222> LOCATION: (1)..(11)  
 29 <223> OTHER INFORMATION: X can be H, R, S, W, or Y  
 31 <400> SEQUENCE: 1  
 W--> 33 Xaa Gly Gly Xaa Gly Gly Xaa Gly Gly Xaa Phe  
 34 1 5 10  
 37 <210> SEQ ID NO: 2  
 38 <211> LENGTH: 11  
 39 <212> TYPE: PRT  
 40 <213> ORGANISM: artificial sequence FYI: Explain source of genetic  
 42 <220> FEATURE: material  
 43 <223> OTHER INFORMATION: binds strongly to methylphosphonic acid in <2207-<223>  
 46 <220> FEATURE: section  
 47 <221> NAME/KEY: BINDING  
 48 <222> LOCATION: (1)..(11)  
 50 <400> SEQUENCE: 2  
 52 His Gly Gly His Gly Gly His Gly Gly Arg Phe  
 53 1 5 10  
 56 <210> SEQ ID NO: 3  
 57 <211> LENGTH: 11  
 58 <212> TYPE: PRT  
 59 <213> ORGANISM: artificial sequence  
 61 <220> FEATURE:  
 62 <223> OTHER INFORMATION: binds strongly to methylphosphonic acid  
 65 <220> FEATURE:  
 66 <221> NAME/KEY: BINDING  
 67 <222> LOCATION: (1)..(11)  
 69 <400> SEQUENCE: 3

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71 Tyr Gly Gly Tyr Gly Gly Trp Gly Gly Tyr Phe  
72 1 5 10  
75 <210> SEQ ID NO: 4  
76 <211> LENGTH: 11  
77 <212> TYPE: PRT  
78 <213> ORGANISM: artificial sequence  
80 <220> FEATURE:  
81 <223> OTHER INFORMATION: binds to the thiol  
84 <220> FEATURE:  
85 <221> NAME/KEY: BINDING  
86 <222> LOCATION: (1)..(11)  
88 <400> SEQUENCE: 4  
90 Ser Gly Gly Arg Gly Gly His Gly Gly His Phe  
91 1 5 10  
94 <210> SEQ ID NO: 5  
95 <211> LENGTH: 11  
96 <212> TYPE: PRT  
97 <213> ORGANISM: artificial sequence  
99 <220> FEATURE:  
100 <223> OTHER INFORMATION: binds to the thiol  
103 <220> FEATURE:  
104 <221> NAME/KEY: BINDING  
105 <222> LOCATION: (1)..(11)  
107 <400> SEQUENCE: 5  
109 Trp Phe Phe His Gly Gly His Gly Gly Trp Phe  
110 1 5 10

RAW SEQUENCE LISTING ERROR SUMMARY                   DATE: 04/08/2003  
PATENT APPLICATION: US/09/859,701                   TIME: 12:16:45

Input Set : A:\94661sequencelisting.ST25.txt  
Output Set: N:\CRF4\04082003\I859701.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,4,7,10

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/859,701

DATE: 04/08/2003

TIME: 12:16:45

Input Set : A:\94661sequencelisting.ST25.txt  
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L:33 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0

**Raw Sequence Listing Error Summary**

**ERROR DETECTED**

**SUGGESTED CORRECTION**

**SERIAL NUMBER: 09/859,701**

**ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE**

1  Wrapped Nucleic  
     Wrapped Aminos

The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2  Invalid Line Length

The rules require that a line not exceed 72 characters in length. This includes white spaces.

3  Misaligned Amino  
     Numbering

The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4  Non-ASCII

The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5  Variable Length

Sequence(s)  contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6  PatentIn 2.0  
     "bug"

A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)  . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7  Skipped Sequences  
     (OLD RULES)

Sequence(s)  missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(ii) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8  Skipped Sequences  
     (NEW RULES)

Sequence(s)  missing. If intentional, please insert the following lines for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000

9  Use of n's or Xaa's  
     (NEW RULES)

Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10  Invalid <213>  
     Response

Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or  
     is Artificial Sequence

11  Use of <220>

Sequence(s)  missing the <220> "Feature" and associated numeric identifiers and responses.  
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 06/01/1998, Vol 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12  PatentIn 2.0  
     "bug"

Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13  Misuse of n

n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.